



*Handwritten signature/initials*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Louis J. Bintz et al.                      Art Unit : 1732  
Serial No. : 10/633,955                                      Examiner : Mathieu Vargot  
Filed : August 4, 2003  
Title : METHOD OF FABRICATING ELECTRO-OPTIC POLYMER WAVEGUIDE  
DEVICES INCORPORATING ELECTRO-OPTICALLY ACTIVE POLYMER  
CLADS

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REPLY TO ACTION OF JUNE 30, 2005

In reply to the Office Action of June 30, 2005, Applicants submit the following remarks.

Claims 1-27 are pending. Claims 1, 2, and 16 stand rejected under 35 U.S.C. §102(b) over Dorn et al., U.S. 5,319,492 ("Dorn"). Claims 3-15 and 17-27 stand rejected under 35 U.S.C. §103 over Dorn, alone or in combination with Oh et al., Appl. Phys. Lett. 2000, 76(24:3525-3527 ("Oh"). Applicants request the Examiner to reconsider and withdraw the rejections for the following reasons.

Each of the claims is directed towards a method of manufacturing a waveguide. Waveguides require a specific type of structure and are designed to perform specific functions. Dorn, the primary reference, does not describe a waveguide. Rather, the device shown in Fig. 3 of Dorn, to which the Examiner refers, is a type of Bragg mirror. In this device, light comes in at an angle to the device and is reflected depending on the refractive index of the layers. This is why one of the electrodes (13) or (14) in Dorn's device must be transparent (see col. 3, lines 12-13), and why the light wave is oblique to the switch and traverses the layers (see col. 3, lines 66-

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 17, 2005  
Date of Deposit

*Bill Huse*  
Signature

Bill Huse  
Typed or Printed Name of Person Signing Certificate